

Customer No.: 31561
Application No.: 10/707,664
Docket NO.: 7635-US-PA

In The Claims:

Claim 1. (currently amended) A dual mode liquid crystal display device, comprising:

an upper substrate;

a lower substrate comprising a first thin film transistor, a second thin film transistor, a reflective electrode connected to the first thin film transistor, and a regional light-emitting source with a reflective cathode being electrically connected to the second thin film transistor; and

a liquid crystal layer between the upper substrate and the lower substrate.

Claim 2. (original) The display device of claim 1, wherein the upper substrate further includes:

a substrate;

a color-filtering array on one surface of the substrate; and

a first transparent electrode on the surface of the color-filtering layer.

Claim 3. (original) The display device of claim 2, wherein the device further includes a polarizer plate and a quarter wave plate on a substrate surface just opposite the color-filtering array.

Claim 4. (original) The display device of claim 1, wherein the regional light-emitting source includes a light-emitting diode.

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Claim 5. (currently amended) The display device of claim 4, wherein the light-emitting diode further includes:

a the reflective cathode on the lower substrate;
a light-emitting layer on the cathode; and
a second transparent electrode on the light-emitting layer, wherein the second transparent electrode serves as an anode.

Claim 6. (original) The display device of claim 1, wherein the reflective electrodes is set up on a bumpy layer.

Claim 7. (original) The display device of claim 1, wherein the first thin film transistor and the reflective electrode are formed in a first pixel region, and the second thin film transistor and the regional light-emitting source are formed in a second pixel region.

Claim 8. (original) The display device of claim 1, wherein the first thin film transistor, the reflective electrode, the second thin film transistor and the regional light-emitting source are formed in a pixel region.

Claim 9. (currently amended) A dual mode liquid crystal display device, comprising:

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a lower substrate;
an upper substrate having a first thin film transistor and a first transparent electrode electrical connected to the first thin film transistor , a second thin film transistor and a regional light-emitting source electrically connected with the second thin film transistor; and
a lower substrate having a bumpy layer thereon, a reflective layer on the bumpy layer, a color-filtering array on the reflective layer and a second transparent electrode on the color-filtering array;
a liquid crystal layer between the upper substrate and the lower substrate.

Claim 10. (original) The display device of claim 9, wherein the regional light-emitting source includes a light-emitting diode.

Claim 11. (original) The display device of claim 10, wherein a portion of the first transparent electrode serves as an anode for the light-emitting diode and the light-emitting diode further includes:

a light-emitting layer on a surface of the first transparent electrode facing the lower substrate; and
a cathode on the light-emitting layer facing the lower substrate.

Claim 12. (original) The display device of claim 11, wherein aside from the first transparent electrode and the first/second thin film transistor on the substrate of the upper

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substrate, further includes:

a quarter wave plate on one surface of the substrate; and
a polarizer plate on the quarter wave plate.

Claim 13. (canceled)

Claim 14. (currently amended) The display device of claim-13_9, wherein the reflective liquid crystal display device serves as the principal display device when the background light intensity is strong and the regional light-emitting source serves as the principal display device when the background light intensity is weak.

Claim 15. (currently amended) A dual mode liquid crystal display device, comprising:

an upper substrate having a first transparent electrode and a regional light-emitting source electrically connected to the first transparent electrode;

a lower substrate having a second transparent electrode thereon, wherein, between the lower substrate and the second transparent, there are a bumpy layer on the surface of the lower substrate, a reflective layer on the bumpy layer and a color-filtering array on the reflective layer; and

a liquid crystal layer between the upper substrate and the lower substrate.

Claim 16. (original) The display device of claim 15, wherein the regional

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light-emitting source includes a light-emitting diode.

Claim 17. (original) The display device of claim 16, wherein a portion of the first transparent electrode serve as an anode for the light-emitting diode and the light-emitting diode further includes:

a light-emitting layer on a surface of the first transparent electrode facing the lower substrate; and

a cathode on the light-emitting layer facing the lower substrate.

Claim 18. (currently amended) The display device of claim 15, wherein aside from the first transparent electrode and the first/second thin film-transistor on a substrate of the upper substrate, further includes:

a quarter wave plate on one surface of the substrate; and

a polarizer plate on the quarter wave plate.

Claim 19. (canceled)

Claim 20. (original) The display device of claim 15, wherein the reflective liquid crystal display device serves as the principal display device when the background light intensity is strong and the regional light-emitting source serves as the principal display device when the background light intensity is weak.